

Done



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

601.3598

Job Sheet 210891



Part No: 601.3598

Job Qty: 12 pcs

Part Name: Socket Head Cap Screw



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 6/25/20

Job Tracking No:

Due Date: 7/9/20

Created By: Jennifer Renwick

Type: SOLD

Description:

Note: 601.3598 REV.NC IPP REV:A 20.06.24 NEW ISSUE DD VERF:JFS

Ship Via:

139 Valve

PRELIMINARY ISSUE

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	12 pcs		7/9/20	0.00	0.00	Purchasing - 1		JUL 03 2020
							Purchasing - 2		
							Purchasing - 3		
110	Packaging 2-1 - Receive - B4B	12 pcs		7/9/20	0.00	0.00	Packaging 2 - 1 - B4B		JUL 03 2020
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 - B4B		
							Packaging 2 - 21 - B4B		
							Packaging 2 - 22 - B4B		
							Packaging 2 - 23 - B4B		
							Packaging 2 - 24 - B4B		
							Packaging 2 - 25 - B4B		
							Packaging 2 - 26 - B4B		
							Packaging 2 - 27 - B4B		
							Packaging 2 - 28 - B4B		



Container No: S285903



Part: 601.3598

Job No: 210891

Serial No/Batch: S285903

Revision: REV.NC

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 07/03/20

Plex 6/25/20 11:25 AM Dart.Renwick.Jennifer

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
					Packaging 2 - 37 - B4B	
120 QC 6	12 pcs	7/9/20	0.00 0.00		QC 6 - 9	JUL 06 2020
					QC 6 - 68	
					QC 6 - 61	DAS
					QC 6 - 40	81
					QC 6 - 81	9-89
					QC 6 - 82	
130 Packaging 3-1 - Stock - B4B	12 pcs	7/9/20	0.00 0.00		Packaging 3 - 1 - B4B	
	50				Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	JUL 06 2020
					Packaging 3 - 4 - B4B	DAS
					Packaging 3 - 5 - B4B	80
					Packaging 3 - 6 - B4B	9-89
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
					Packaging 3 - 37 - B4B	
140 QC 21 - SA	12 pcs	7/9/20	0.00 0.00		QC 21 - SA - 21	SA 036
	50				QC 21 - SA - 70	
					QC 21 - SA - 9	DAS
					QC 21 - SA - 77	77
						9-89
						JUL 06 2020

Part Op 100 - ISSUE P/O: _____ C OF C IS REQUIRED

Descriptions: 110 - Receive & Inspect for Damage & Mat'l Certs

120 - QC6- All purchased or subcontracted products

130 - Identify as per dwg & Stock

140 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
93705A195	Socket Head Cap Screw	12 Ea (1 ea)	100-Purchasing	S285902

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	93705A195	12	0	0

Part Specifications

Specifications could not be found.

Plex 6/25/20 11:25 AM Dart.Renwick.Jennifer

REV	DESCRIPTION	DATE	APPROVED
1	INITIAL RELEASE	12/14/15	P. BRAYO

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1	INITIAL RELEASE	12/14/15	P. BRAYO

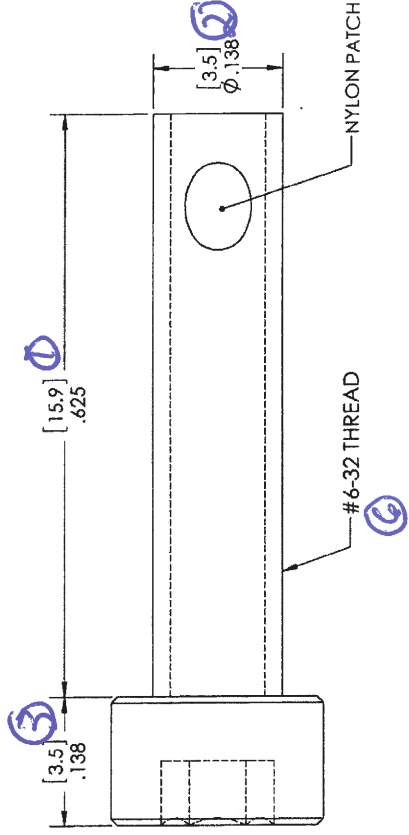
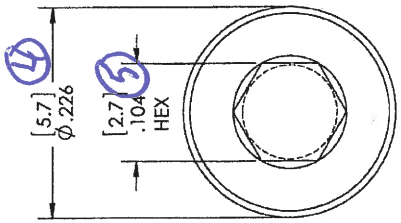
REV	DESCRIPTION	DATE	APPROVED
1	INITIAL RELEASE	12/14/15	P. BRAYO

REV	DESCRIPTION	DATE	APPROVED
1	INITIAL RELEASE	12/14/15	P. BRAYO

NOTES:

1. MATERIAL: 18-8 STAINLESS STEEL
2. VENDOR: MCMASTER-CARR; P/N 93705A195
3. ALL METRIC TOLERANCES +/- 0.1 mm

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ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 210891



SOURCE CONTROL DRAWING

QTY	PARTS LIST
NEXT ASSY (S)	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
DESCRIPTION	SOCKET HEAD CAP SCREW
DATE	12/14/15
BY	07/15/15
SCALE	NONE
SHEET	1 OF 1

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Route update only

H:/FORMS/Quality Assurance\approved QA\NCRWO Rev J



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB046663



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB046663

PO Date: 6/30/20

Due Date: 7/3/20

**Purchase Order
Revision:**

Revision Date:

Issued By: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground

Pynt Terms: Net 60

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	210829	1173N124		10/pk	O-Ring	Firmed X10	-	7/3/20	10 Ea	0 Ea	10 Ea	\$1.375/Ea	\$13.75
2		20625A914		1/pk	Dial Indicator Atchmnt Agd- 2 Dial	Firmed X1	-	7/3/20	1 lbs	0 lbs	1 lbs	\$6.63/lbs	\$6.63
3		6102N3		3 ft length	Tight- Tolerance 1215 Carbon Steel Rod, Easy-to- Machine, 5/8" Diameter	Firmed	-	7/3/20	3 ft	0 ft	3 ft	\$9.8033/ft	\$29.41
4		7767T61		6 ft	Low-Carbon Steel Round Tube, 0.188" Wall Thickness, 3/4" OD	Firmed X6	-	7/3/20	6 ft	0 ft	6 ft	\$8.51/ft	\$51.06
5		89955K998		3 ft length	Tube	Firmed X15	-	7/3/20	15 ft	0 ft	15 ft	\$14.8133/ft	\$222.20
6	210811	92778A067		25/pk	18-8 Stainless Steel Oval-Tip Set Screws, 6- 32 Thread, 1/8" Long	Firmed X25	-	7/3/20	25 Ea	0 Ea	25 Ea	\$0.1248/Ea	\$3.12
7		9559K41		10/pk	O-Ring	Firmed X10	-	7/3/20	10 Ea	0 Ea	10 Ea	\$1.268/Ea	\$12.68
8	210889	9642K31		25/pk	Trigger Ball	Firmed	-	7/3/20	25 Ea	0 Ea	25 Ea	\$0.3884/Ea	\$9.71
9		C45-11-2	C45	90145A510 20/pk	Locating Pin	Firmed X20	-	7/3/20	20 Ea	0 Ea	20 Ea	\$0.423/Ea	\$8.46

Plex 6/30/20 1:03 PM Dart.Guerin.Kimberley



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Hawkesbury, ON
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Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB046663



Items													
Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
10		C45-3-4-1	C250	98410A110 100/pk	Retaining Ring	Firmed X100	-	7/3/20	100 Ea	0 Ea JUL 0 3 2020	100 Ea	\$0.1351/Ea	\$13.51
11		C45-3-5		95606A180 100 / per pk	Teflon Spacer	Firmed X100	-	7/3/20	100 Ea	0 Ea JUL 0 3 2020	100 Ea	\$0.1295/Ea	\$12.95
12		EL-PLUG-M		7216k5 1/pk color yellow	3-Prong Male Spade Plug	Firmed X30	-	7/3/20	30 Ea	0 Ea JUL 0 2 2020	30 Ea	\$7.80/Ea	\$234.00
13		EL-PLUG-F		7216k6 1/pk color yellow	3-Prong Female Spade Plug	Firmed X30	-	7/3/20	30 Ea	0 Ea JUL 0 2 2020	30 Ea	\$13.60/Ea	\$408.00
14		RBT18520-19		20715A69 1/PK	Dial Indicator, 1"	Firmed X1	-	7/3/20	1 Ea	0 Ea	1 Ea	\$14.96/Ea	\$14.96
15		SWA6A-1900		69525K16 100/pk	1/4" Female Spade Connector	Firmed X100	-	7/3/20	100 Ea	0 Ea	100 Ea	\$0.0772/Ea	\$7.72
16	210789	91525A120		25/pk	washer D3456-1 : AS PER DWG D3456 REV.A	Firmed X75	-	7/3/20	75 pcs	0 pcs JUL 0 3 2020	75 pcs	\$0.2152/pcs	\$16.14
17	210909	9776K38		75 ft roll	Hook & Loop Strip 1" D3800-1-100 : AS PER DWG D3800 REV. B NOTE REQUIRED AT DELIVERY: Date of Manufacturing: EXP: Date:	Firmed X75	-	7/3/20	75 ft	0 ft JUL 0 3 2020	75 ft	\$1.3289/ft	\$99.67
18	210910	9776K33		9776K999 75 ft roll	Hook And Loop Strip 1" D3800-3-100 : AS PER DWG D3800 REV.B Shelf life required	Firmed	-	7/3/20	75 ft	0 ft	75 ft	\$1.3289/ft	\$99.67
19	210855	9452K79		100/pk	O-Ring	Firmed X100	-	7/3/20	100 Ea	0 Ea JUL 0 3 2020	100 Ea	\$0.0763/Ea	\$7.63
20	210891	93705A195		50/pk	Socket Head Cap Screw	Firmed X50	-	7/3/20	50 Ea	0 Ea JUL 0 3 2020	50 Ea	\$0.1484/Ea	\$7.42
Grand Total:												\$1,278.68	



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PURCHASE ORDER

POHB046663



Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 DOCUMENT SPECIAL REQUIREMENTS
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/30/20 1:03 PM Dart.Guerin.Kimberley



McMASTER-CARR®

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB046663

Order Placed By
Kim

McMaster-Carr Number
7440461-04

Page 1 of 2

06/30/2020

Line	Product	Ordered	Shipped
1	20625A914 Mitutoyo Model 101039 Flat Back for Plunger-Style Variance Indicator	1 Each	1 ✓
3	1173N124 High-Temperature Soft Silicone O-Ring, 3/32 Fractional Width, Dash Number 124, Packs of 10	1 Pack	1 ✓
6	92778A067 18-8 Stainless Steel Oval-Tip Set Screws, 6-32 Thread, 1/8" Long, Packs of 25	1 Pack	1 ✓
7	93705A195 18-8 Stainless Steel Thread-Locking Socket Head Screw, 6-32 Thread Size, 5/8" Long, Packs of 50	1 Pack	1 ✓
8	9559K41 Ultra-Chemical-Resistant Rigid PTFE O-Ring, 1/8 Fractional Width, Dash Number 219, Packs of 10	1 Pack	1 ✓
10	90145A510 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 1" Long, Packs of 20	1 Pack	1 ✓
11	98410A110 External Retaining Ring for 3/16" OD, Beryllium Copper, Packs of 100	1 Pack	1 ✓
12	95606A180 Nylon Plastic Washer for 1/2" Screw Size, 0.562" ID, 0.75" OD, Off-White, Packs of 100	1 Pack	1 ✓
13	7216K5 Hinged Straight-Blade Housing, Hinged, 3-Blade Plug, Grounded, NEMA 5-15, Yellow	30 Each	30 ✓
14	7216K6 Hinged Straight-Blade Housing, 3-Slot Socket, NEMA 5-15, Yellow	30 Each	30 ✓
15	20715A69 Dial Plunger-Style Variance Indicator with 0" to 1" Measuring Range	1 Each	1 ✓
16	69525K16 Noninsulated Quick-Disconnect Terminals, Single-Crimp Female, 16-14 Gauge, 1/4" Wide x 0.032" Thick Tab, Packs of 100	1 Pack	1 ✓
17	91525A120 316 Stainless Steel Washer, Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25	3 Packs	3 ✓
18	9776K38 Flame-Retardant Loop, 1" Wide x 75 Feet Long	1 Each	1 ✓
20	9452K79 Oil-Resistant Buna-N O-Ring, 1/16 Fractional Width, Dash Number 025, Packs of 100	1 Pack	1 ✓

RECEIVED

DAS
81
9-89

Shipped separately from our Cleveland warehouse on 06/30

JUL 02 2020

4	7767T61 Low-Carbon Steel Round Tube, 0.188" Wall Thickness, 3/4" OD, 6 Feet Long	1 Each	1 ✓
5	89955K998 Easy-to-Weld 4130 Alloy Steel Round Tube, 0.188" Wall Thickness, 5/8" OD, 3 Feet Long	5 Each	5 ✓

1-Box
Per 2011 CPK007 896293

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB046663

Order Placed By
Kim

McMaster-Carr Number
7440461-04

Page 2 of 2

06/30/2020

Line	Description	Ordered	Shipped
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Shipped separately from our New Jersey warehouse on 06/30

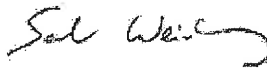
9	9642K31	Tight-Tolerance Hardened 440C Stainless Steel Ball, 9/64" Diameter	1 Pack	1
2	6102N3	Tight-Tolerance 1215 Carbon Steel Rod, Easy-to-Machine, 5/8" Diameter, 3 Feet Long	1 Each	1

Expected to ship

19	9776K33	Flame-Retardant Hook, 1" Wide X 75 Feet Long	1 Each	1 Jul 2-22
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Certificate of compliance

This is to certify that the above items were supplied in accordance with the description and as illustrated in the catalog. Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.


Sarah Weinberg
Compliance Manager

DAS
81
9-89



18-8 Stainless Steel Thread-Locking Socket Head Screw

6-32 Thread Size, 5/8" Long

\$7.42 per pack of 50
93705A195

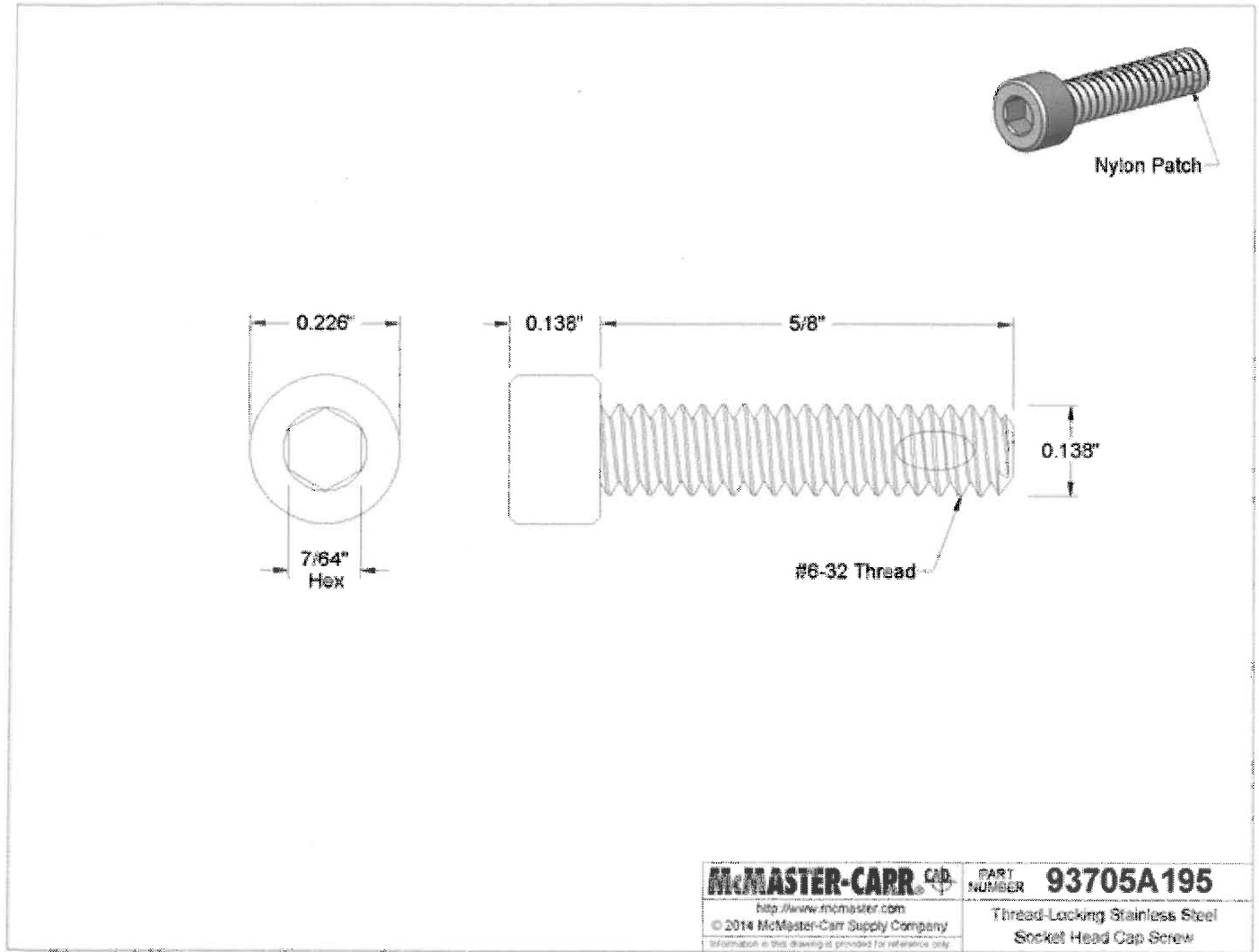


Thread Size	6-32
Length	5/8"
Threading	Fully Threaded
Thread Spacing	Coarse
Head	
Diameter	0.226"
Height	0.138"
Drive Size	7/64"
Hardness	Rockwell B70
Tensile Strength	70,000 psi
Screw Size Decimal Equivalent	0.138"
Thread Type	UNC
Thread Fit	Class 3A
Thread Direction	Right Hand
Head Type	Socket
Socket Head Profile	Standard
Drive Style	Hex
Locking Type	Thread Locker
Thread Locker Type	Nylon Patch
Thread Locker Temperature Range	-70° to 250° F
Specifications Met	ASME B18.3
System of Measurement	Inch
Material	18-8 Stainless Steel
RoHS	RoHS 3 (2015/863/EU) Compliant
REACH	REACH (EC 1907/2006) (01/16/2020, 205 SVHC) Compliant
Country of Origin	Taiwan

Made from 18-8 stainless steel, these screws have good chemical resistance and may be mildly magnetic. A thread locker bonded to the threads adds friction to resist loosening from vibration. Dimensions meet ASME B18.3 or ISO 4762 (formerly DIN 912) specifications. Length is measured from under the head.

Screws with a nylon patch are reusable, but their holding power lessens with each use.

Coarse threads are the industry standard; choose these screws if you don't know the pitch or the threads per inch.



The information in this 3-D model is provided for reference only.

Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: <u>210891</u>		DISPOSITION		DEPARTMENT/PROCESS			
Part No. <u>601-3598</u>		Rework ☐ Scrap ☐ Use-as-is ☒		Cross tube ☐ Eng. (Non-AW) ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Finishing ☐ Rec/Store/Packaging ☐ Skid-tube ☐ Machining ☐ Large Fab ☐			
Date: <u>JUL 06 2020</u>	Sequence #: <u>QC-6</u>	QTY Affected: <u>50 of 50</u>		DAS MRB (QS1042) <u>51</u> 9-89 <u>2010/10/16</u> <u>9-89</u> <u>2010/10/16</u> Completed By: <u>9-89</u> <u>2010/10/16</u> Lead hand / Supervisor <u>9-89</u> <u>2010/10/16</u> QC / QA Coordinator <u>9-89</u> <u>2010/10/16</u>			
Description Work Order Deviation		Disposition					
DWA Calls for length of screw to be 5/8(.625) - Measuring .604" and is out of acceptable .010" tolerance.		This measurement is acceptable. ASME B18.3 Length Tolerance for screw with 0.625 Length and 6-32 size is : +0.00 - 0.03					
Root Cause		FAULT CATEGORY					
Operator ☐ Manufacturing Process ☒ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Other/Details: _____					
		Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☒ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread ☐					

